			(1)	
	Application No.	Applicant(s)		
	09/733,303	MOORE, SAMUEL	MOORE, SAMUEL EARL	
Notice of Allowability	Examiner	Art Unit		
	Joseph S. Del Sole	1722		
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in 5) or other appropriate commu RIGHTS. This application is s I3 and MPEP 1308.	ithis application. If not including this application will be mailed in dud	ded e course. <b>THIS</b>	
1. This communication is responsive to the responses of 9/1	1 <u>2/03 and 12/12/03</u> .			
2. 🔀 The allowed claim(s) is/are <u>1-4,6-10,12-15,17-19,21,23 a</u>	<u>nd 24</u> .	1		
3. 🔀 The drawings filed on <u>08 December 2000</u> are accepted b	y the Examiner			
4. Acknowledgment is made of a claim for foreign priority to a) All b) Some* c) None of the:  1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 1. Copies of the certified copies of the priority documents have 1. Certified copies of the priority d	ve been received. ve been received in Application locuments have been received " of this communication to file IMENT of this application. mitted. Note the attached EXA	on No d in this national stage applic e a reply complying with the r AMINER'S AMENDMENT or	equirements	
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") me</li> <li>(a) including changes required by the Notice of Draftspe</li> <li>1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examine Paper No./Mail Date</li> </ol>	ust be submitted. erson's Patent Drawing Review — er's Amendment / Comment of	w ( PTO-948) attached		
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	the header according to 37 CF	R 1.121(d).	ile backy of	
7. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMENT	POSIT OF BIOLOGICAL MATE TFOR THE DEPOSIT OF BIO	ERIAL must be submitted DLOGICAL MATERIAL	. Note the	
Attachment(s)  1. Notice of References Cited (PTO-892)	5. ☐ Notice of In	iformal Patent Application (P	TO-152)	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948	6. 🛛 Interview S	ummary (PTO-413),		
3. Information Disclosure Statements (PTO-1449 or PTO/SB Paper No./Mail Date	3/08), 7. ⊠ Examiner's	/Mail Date <u>2/5/04</u> . Amendment/Comment	llawones	
4. Examiner's Comment Regarding Requirement for Deposit	t 8. ⊠ Examiner's 9. □ Other	Statement of Reasons for A	nowance	
of Biological Material	о. <u>—</u>	<b></b>		

**Art Unit: 1722** 

## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ms. Linda Russell on 2/5/04.

The application has been amended as follows:

in the claims: amend claim 12 and cancel claim 25 as follows:

Claim 1 (previously presented): A spinnerette assembly for forming one or more composite hollow fibers comprising:

a unitary spinnerette body;

at least one extrusion orifice formed in said unitary spinnerette body;

a hollow needle being affixed in a needle mounting hole formed in said unitary spinnerette body and wherein said needle mounting hole receives a portion of said hollow needle,

said hollow needle extending through each said at least one extrusion orifice in a concentric manner to define at least one annular passage around said needle in said at least one extrusion orifice;

a bore forming fluid passage formed in said unitary spinnerette body, said bore forming fluid passage communicating with the interior of each said hollow needle;

Art Unit: 1722

at least one core forming material passage formed in said unitary spinnerette body, wherein each said at least one core forming material passage comprises a core forming material inlet port extending from a surface of said spinnerette body to an interior of said unitary spinnerette body and at least one transverse passage extending form said core forming material port to each said at least one annular passage; and

a sheath forming material passage formed in said unitary spinnerette body wherein said sheath forming material passage comprises a sheath forming material port extending from a surface of said unitary spinnerette body to each said annular passage.

Claim 2 (previously presented): A spinnerette assembly as recited in claim 1, wherein said at least one transverse passage is a backcut portion of said at least one core forming material passage that entirely surrounds said hollow needle in a continuous manner and is in communication with said at least one extrusion orifice.

Claim 3 (previously presented): A spinnerette assembly as recited in claim 1, wherein each said core forming material port extends substantially parallel to said at least one extrusion orifice and said at least one transverse passage extends substantially perpendicular to said core forming material port.

Claim 4 (previously presented) A spinnerette assembly as recited in claim 1, wherein said spinnerette assembly comprises said unitary spinnerette body and a bottom plate separated from each other by a shim disposed between said unitary spinnerette body and said bottom plate.

Art Unit: 1722

Claim 5 (cancelled)

Claim 6 (previously presented): A spinnerette assembly as recited in claim 4 wherein each said needle mounting hole is in communication with said bore forming fluid inlet port at a surface of said unitary spinnerette body via said bore forming fluid passage.

Claim 7 (previously presented): A spinnerette as recited in Claim 6, wherein said bore forming fluid passage comprises a first bore forming fluid conduit coaxial with said needle and in communication with said needle and a second bore forming fluid conduit that extends at an angle with respect to said first bore forming fluid conduit from said bore forming fluid conduit to a surface of said unitary spinnerette body.

Claim 8 (previously presented): A spinnerette assembly as recited in Claim 4, wherein said extrusion orifice extends through portions of said unitary spinnerette body and said bottom plate.

Claim 9 (previously presented): A spinnerette assembly as recited in Claim 4, wherein said core forming material passage is formed in said unitary spinnerette body.

Claim 10 (previously presented): A spinnerette assembly as recited in claim 4, wherein a gap between said unitary spinnerette body and said bottom plate defines a portion of said sheath forming material passage.

Claim 11 (cancelled)

Claim 12 (currently amended): A spinnerette assembly for forming one or more multiplesheath composite hollow fibers comprising:

a unitary spinnerette body,

at least one extrusion orifice formed in said unitary spinnerette body;

Art Unit: 1722

a hollow needle being affixed in a needle mounting hole formed in said unitary spinnerette body and wherein said needle mounting hole receives a portion of said needle,

said hollow needle extending through each said at least one extrusion orifice in a concentric manner to define at least one annular passage around said needle in said at least one extrusion orifice;

a bore forming fluid passage formed in said unitary spinnerette body, said bore forming fluid passage communicating with the interior of each said needle;

at least one core forming material passage formed in said unitary spinnerette body, wherein each said at least one core forming material passage comprises a core forming material inlet port extending from a surface of said unitary spinnerette body to an interior of said unitary spinnerette body and at least one transverse passage extending from said core forming material port to each said at least one annular passage; and

a first sheath forming material passage, wherein said first sheath forming material passage comprises a first sheath forming material port extending from a surface of said unitary spinnerette body to each said at least one annular passage a second sheath forming material passage, wherein said second sheath forming material passage comprises a second sheath forming material port extending from a surface of said unitary spinnerette body assembly to each said annular passage.

Claim 13 (original): A spinnerette assembly as recited in Claim 12, wherein said transverse passage is a backcut portion of said core forming material passage that

Art Unit: 1722

entirely surrounds said needle in a continuous manner and is in communication with said extrusion orifice.

Claim 14 (original): A spinnerette assembly as recited in Claim 12, wherein each said core forming material port extends substantially parallel to said extrusion orifice and said transverse passage extends substantially perpendicular to said core forming material port.

Claim 15 (previously presented): A spinnerette assembly as recited in Claim 12, wherein said spinnerette assembly comprises a unitary spinnerette body, a middle plate, and a bottom plate separated by a first shim disposed between said unitary spinnerette body and said middle plate, and a second shim disposed between said middle plate and said bottom plate.

Claim 16 (canceled)

Claim 17 (previously presented): A spinnerette assembly as recited in claim 15 wherein each said needle mounting hole is in communication with said bore forming fluid inlet port at a surface of said unitary spinnerette body via a bore forming fluid passage.

Claim 18 (previously presented): A spinnerette as recited in Claim 17, wherein said bore forming fluid passage comprises a first bore forming fluid conduit coaxial with said needle and in communication with said needle and a second bore forming fluid conduit that extends at an angle with respect to said first bore forming fluid conduit from said bore forming fluid conduit to a surface of said unitary spinnerette body.

Art Unit: 1722

Claim 19 (previously presented): A spinnerette assembly as recited in Claim 15, wherein said extrusion orifice extends through portions of said unitary spinnerette body, said middle plate, and said bottom plate.

Claim 20 (cancelled)

Claim 21 (previously presented): A spinnerette assembly as recited in claim 15, wherein a gap between said unitary spinnerette body and said middle plate defines a portion of said first sheath forming material passage, and the gap between said middle plate and said bottom plate defines a portion of said second sheath forming material passage.

Claim 22 (cancelled)

Claim 23 (previously presented): A spinnerette assembly as recited in claim 21 wherein said second sheath forming material passage comprises said second sheath forming material inlet port situated at an exterior surface of said bottom plate in communication with a channel formed in said bottom plate, said channel being in communication with the gap defined between said bottom plate and said middle plate.

Claim 24 (previously presented): A spinnerette assembly as recited in claims 1 or 12 comprising multiple transverse passages and extrusion orifices for each core forming material port.

Claim 25 (cancelled)

2. The following is an examiner's statement of reasons for allowance: the prior art of record fails to teach or suggest the spinnerette assembly as claimed including a sheath forming material passage formed in the unitary spinnerette body wherein the sheath

Art Unit: 1722

forming material passage has a sheath forming material port extending from a surface of the unitary spinnerette body to each annular passage.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Terminal Disclaimer

3. The terminal disclaimer filed on 9/12/03 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of any patent granted on Application Number 09/733,304 has been reviewed and is accepted. The terminal disclaimer has been recorded.

## Correspondence

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Joseph S. Del Sole whose telephone number is (571) 272-1130. The examiner can normally be reached on Monday through Friday from 8:30 A.M. to 5:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ms. Wanda Walker, can be reached at (571) 272-1151. The official fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306 for both non-after finals and for after finals.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from the either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on the access to the Private PAIR system, contact the Electronic Business Center (EBC) at 886-217-9197 (toll-free).

Joseph & Let Sou

February 5, 2004

ROBERT DAVIS
PRIMARY EXAMINER
GROUP 1399 / 265

2/5/04